



PES 301 Epoxy Resin and Hardener is a two component thixotropic solvent free epoxy material used for injection applications, bonding of dissimilar materials, and for use in conjunction with a range of tapes and fabrics to produce high strength composite repairs. The product can be applied to manually prepared surfaces and is ideal for encapsulating problem pipework ranging from 1"-36" diameter. Once cured, the system can resist up to 300 psi pressure. For injection applications the material can be pumped into voids up to 15mm in depth.



Main characteristics -	Mechanical Properties –		
Two component	Adhesion		
Solvent free epoxy	Tensile Shear to ASTM D1002	2100psi	(148kg/cm²)
Usable life 25 minutes 68°F (20°C)	Compressive strength		
Touch dry 90 mins 68°F (20°C)	Tested to ASTM D 695	14,700psi	(1034kg/ cm ²)
Full cure 5 days 68°F (20°C)	Corrosion Resistance		
Up to 300psi pressure tolerance (3x Wrap of glass tape	e) Tested to ASTM B117	Minimum 500	0 hours
Applied by brush or applicator tool	Flexural Strength		
Available in 1kg, 3kg, 30kg pack sizes	Tested to ASTM D790	13,000psi	(912kg/cm²)
Tolerant of less than ideal surface preparation	Heat Resistance		
	Suitable for water immersion up to 158°F (70°C) and intermittent		

Suitable for water immersion up to 158°F (70°C) and intermittent contact with steam up to 248°F (120°) (when used with glass tape, dry heat resistance up to 302°F (150°C).



Eroded gas main repaired using PES 301 Epoxy Resin and Hardener and 3 wraps of Glass Tape



Main fire water lines encapsulated using PES 301 Epoxy Resin and Hardener and 3 wraps of Glass Tape